UDC 639.14.01: USSR PURLYMAND A. T., PERMILLOVE, DE T. I., and smilled rand, A. F., sundrederrovek Metallurghook hydroless DANICHEM, IL "Nonmerallie Inclusions in Structural Titagium-Containing Steals Novokuznecek, Tov. VIZ, Chern. Motollaryiya, No 10, 1970, pp li-ol Abstract: The influence of the deoxidation made on the contains and as api-sulan of nonmatable inclusions in structural titantum-containing stantum is a tables with two versions of smelting: the carrent technology, and dates, and distincted technology involving preliminary Geomidation of the metal with classician of the silicon alloy place diffusion deoxidation with powders of 73% Versella par 1944-0.6%), aluminum $\frac{1}{3}$ = -0.25%), and coke (0.2-9:3%). Sedimentally describe from which eluminum (0.07-0.001) is performed before increducing the ferroctionals. This deoxidation forms manuscallis inclusions predominutally homeosed on arrelant which facilitates their regid removal from the metal. The Euphersa a metalica mode, an emphasion with proceedion of the street of metal from all many a oxider to during customy sollowed the mach satient of number like the decise to be to be the custom of cartain as an or to during the bottom as cartain as an or to during the contract of the cartain as a contract of the contract of the cartain as a 11.5 (200.41. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

1/2 025 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--ALLOY ELEMENT WASTE IN HIGH SPEED STEEL MELTS -U-

AUTHOR-(04)-CHUYKO, N.M., GASIK, M.I., ZAOZERNYY, N.T., PARKHOMENKO, G.P.

COUNTRY OF INFO--USSR

SOURCE--MOSCOW, METALLURG., NO 5, MAY 70, PP 22-24

DATE PUBLISHED --- MAY 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--HIGH SPEED STEEL, METAL MELTING, ALLOY DESIGNATION, STEEL SCRAP, TUNGSTEN STEEL, VANADIUM STEEL, CHROMIUM STEEL, METALLURGIC RESEARCH FACILITY, ARC FURNACE/(U)R9 HIGH SPEED STEEL, (U)R12 HIGH SPEED STEEL,

CONTROL MARKING--NO RESTRICTIONS .

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0407

STEP NO--UR/0130/70/000/005/0022/0024

CIRC ACCESSION NO--APO135880

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

2/2 025 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--AP0135880 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE ALLOYING OF HIGH SPEED STEEL IN ELECTRIC ARC FURNACES IS ACCOMPANIED BY SUBSTANTIAL LOSSES OF SUCH ALLOYING ELEMENTS AS TUNGSTEN, VANADIUM, AND CHROMIUM. THE PURPOSE OF THIS ARTICLE IS TO CLARIFY THE BASIC CAUSES OF INCREASING LOSSES IN TUNGSTEN AND OTHER ALLOYING ELEMENTS DURING THE ELECTRIC ARC PROCESS. IN THE COURSE OF THIS STUDY, A STATISTICAL ANALYSIS WAS MADE OF 479 ALLOYS OF RIB, RIZ, AND R9 STEEL AT AN UNIDENTIFIED PLANT IN 1968. MELTS WERE MADE IN FURNACES WITH CAPACITIES OF 7.5 AND 17.5 TONS. THE R18 STEEL CONTAINED SOPERCENT HIGH SPEED STEEL SCRAP AND THE REQUIRED QUANTITY OF FERROTUNGSTEN: THE RIZ AND ROSTEELS WERE OBTAINED BY REMELTING THE SCRAP. THE STATISTICS SHOWED THAT THE TUNGSTEN LOSS WAS FROM 8 TO 13PERCENT, THE VANADIUM LOSS 18-28PERCENT, AND THE CHROMIUM LOSS ABOUT 13PERCENT. AN ACCOMPANYING TABLE SHOWS THE LOSSES FOR EACH ELEMENT IN PERCENTAGE, KOLOGRAMS PER METER, AND RUBLES PER METER FOR THE THREE STEEL TYPES. THERE IS ALSO A TABLE GIVING THE RESULTS OF RIB SMELTING IN A 7.5 TON CAPACITY ARC FURNACE. FINALLY, THERE ARE THREE CURVES SHOWING THE LOSS OF TUNGSTEN IN ALLOYING RIB STEEL AS A FUNCTION OF THE DURATION OF THE SMELTING PERIOD, OF THE TIME OF YEAR, AND OF THE DURATION OF RIB SCRAP REMELTING. FACILITY: DNEPROPETROVSK METALLURGICAL INSTITUTE.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

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Steels

USSR

UDC 669.187.2:669.016.548.2

CHIVAO. N. M., GASIK, M. I., ZAOZERNYY, N. T., PARKHOMENKO, G. P., Dnepropetrovsk Metallurgical Institute

"Alloy Element Waste in High-Speed Steel Melts"

Moscow, Metallurg., No 5, May 70, pp 22-24

Abstract: The alloying of high-speed steel in electric-are furnaces is accompanied by substantial losses of such alloying elements as tungsten, vanadium, and chromium. The purpose of this article is to clarify the basic causes of increasing losses in tungsten and other alloying elements during the electric-are process. In the course of this study, a statistical analysis was made of 479 alloys of R18, R12, and R9 steel at an unidentified of 7.5 and 17.5 tons. The R18 steel contained 50% high-speed steel scrap and the required quantity of ferrotungsten; the R12

CHUYKO, N. M., et al., Metallurg., No 5, May 70, pp 22-24

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and R9 steels were obtained by remelting the scrap. The statistics showed that the tungsten loss was from 8 to 13%, the vanadium loss 18-28%, and the chromium loss about 13%. An accompanying table shows the losses for each element in percentage, kolograms per meter, and rubles per meter for the three steel types. There is also a table giving the results of R18 smelting in a 7.5-ton capacity are furnace. Finally, there are three curves showing the loss of tungsten in alloying R18 steel as a function of the duration of the smelting period, of the time of year, and of the duration of R18 scrap remelting.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

Acc. Nr: APO049048

Ref. Code: UR 6357

PRIMARY SOURCE:

Vestnik Oftal'mologii, 1970, Nr

PP 58-60

AN ABSCESS AT THE ROOT OF THE FRONTAL LOBE FOLLOWING PENETRATING WOUND OF THE ORBIT

B. M. Nikiforov, S. M. Chutko, T. G. Shchedrina

Summary

A case of penetrating wound of the orbit with its osteal fragment entering the frontal lobe, followed by the development of an abscess and its successful surgical treatment, is reported. In the diagnosis of complicated penetrating wounds of the orbit roentgenological examination and cerebrospinal fluid findings obtained by an early lumbar puncture are of major importance.

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REEL/FRAME

19800834

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1/2 012 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-PHYSICOCHEMICAL PROPERTIES OF 2,3,QUINOXALINEDITHIOL -U-

AUTHOR-(03)-CHERNGMORCHENKO, L.I., AKHMETSHIN, A.G., CHUIKO, V.T.

CCUNTRY OF INFO--USSR

SOURCE-ZH. ANAL. KHIM. 1970, 25(2), 231-6

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-PHYSICAL CHEMISTRY PROPERTY, THIOL, AQUEOUS SOLUTION, CHEMICAL STABILITY, IONIZATION CONSTANT, AMPEROMETRIC TITRATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2179

STEP NO--UR/0075/70/025/002/0231/0236

CIRC ACCESSION NO--APO125759

UNCLASSIFIED

012 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO125759 ABSTRACT/EXTRACT-- (U) GP-O-ABSTRACT. THE STABILITY OF AQ. DIMETHYLFORMAMIDE SOLNS. OF 2,3,QUINOXALINEDITHIOLE(I) HAS STUDIED. THE DECOMPN. RATE OF THE REAGENT SOLNS. GREATLY DECREASES AFTER ACIDIFICATION. THE OPTIMUM RATIO OF THE SOLVENT COMPN. IS TOPERCENT DIMETHYLFORMAMIDE WITH 30PERCENT H SUB2 O. THE IONIZATION CONSTS. OF THE REAGENT IN AQ. DIMETHYLLFORMANIOE SOLNS. WERE DETD. BY A POTENTIOMETRIC METHOD. PK VALUES DEPEND LINEARLY ON THE WATER CONTENT. THE IONIZATION CONSTS. OBTAINED BY EXTRAPOLATION OF THE STRAIGHT LINES TO VALUES CORRESPONDING TO 100PERCENT H SUB2 O CONTENT ARE IN GOOD AGREEMENT WITH DATA OBTAINED BY THE SOLY. METHOD. I IS A WEAK ACID WITH DISSOCN. CONSTS. K SUB1 EQUALS 1.16 TIMES 10 PRIME NEGATIVE7 (PK SUB1 6.95) AND K SUB2 EQUALS 1.23 TIMES 10 PRIME NEGATIVE10 (PK SUB2 9.91). I/IS READILY OXIDIZED ON A GRAPHITE MICROANODE AND GIVES SEVERAL WELL DEFINED STAGES OF THE DIFFUSION CURRENT, THEIR HEIGHT BEING PROPORTIONAL TO THE CONCN. OF I. THIS CAN BE USED FOR THE AMPEROMETRIC DETN. OF SEVERAL ELEMENTS. FACILITY: DNEPROPETRUVSK STATE UNIV. . DNE PRCPETROVSK, USSR.

UNCLASSIFIED

USSR

KAGANOV, V. Yu., BLINOV, O. M., KONYASHIN, V. I., and CHUYKO, Yu. N., Moscow Institute of Steel and Alloys

"Investigation of the Possibility of Controlling Steel Composition by the Method of Thermoelectromotive Force"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy -- Chernaya Metallurgiya, No 9, 1970, pp 171-174

Abstract: An investigation was made of the combined effect of C, Si, Mn, and Cr on the thermoelectric properties of steel relative to VR-5 thermoelectrodes and VR-5/20 thermocouples at various average temperatures of sample cooling. The experiments were conducted on cooling metal samples taken from the furnace at 1020°C to 740°C. A statistical model developed for the thermoelectric properties of Fe alloys can be applied to the process of ShKh15 steel production in the temperature range indicated abova. The model makes it possible, if the chemical composition of the steel is known, to determine its thermoelectric properties, or, if the content of three admixtures is known, to determine the content of any fourth admixture (the deviation from the real value does not exceed ± 0.05%). The model also demonstrates the possibility of the simultaneous determination of chemical composition according to four admixtures.

Organometallic Compounds

USSR

UDC 539.193:547.242

KONDRAT'YEVA, O. I., TROITSKAYA, A. D., CHADAYEVA, N. A., CHUYKOVA, A. I., USACHEVA, G. M., and IVANTSOV, A. Ye., Kazan' Chemical Technological Institute Imeni S. M. Kirov and Kazan' Institute of Organic and Physical Chemistry Imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Investigation of the Complex Compounds of Chromium (I) With Organic Derivatives of Arsenic by the EPR Method"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 9, Sep 73, pp 2087-2088

Abstract: Eight new complex compounds of chrcmium (I) with organic derivatives of arsenic (III) were obtained in acetone solution. The reaction occurred instantaneously at room temperature with a slight excess of the arsenic component. It was found that changes even in remote areas surrounding arsenic had a definite effect on the characteristics of the chromium(I)-arsenic(III) bond, which could be due to a possible decrease of the participation of S electrons in formation of \mathbf{s}_p^n -hybrid orbitals.

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UDC 669.27.-172

KOPETSKIY, CH. V., ORZHEKHOVSKIY, V. L., PASHKOVSKIY, A. I., and CHUZHKO, R. K., Moscow

"Influence of Carbon on the Structure and Mechanical Properties of Tungsten Single Crystals"

Moscow, IAN SSSR, Metally, No 2, Mar-Apr 71, pp 124-129

Abstract: Although the literature contains a number of works dealing with the investigation of the mechanical properties of tungsten crystals, the influence of carbon on these characteristics has not as yet been studied in detail. This work presents a study of the influence of various quantities of carbon on the structure and mechanical properties of tungsten crystals, with unchanged content of other impurities. The structure and mechanical properties were studied in extension in the 77-473°K temperature interval, using tungsten crystals with orientation of the growth axis < 110 > and < 100 >, containing 0.01 and 0.001 wt. % C. A decrease in the carbon content in tungsten causes: a) an increase in the ductility of the tungsten crystals, particularly at low temperatures; b) a decrease in the yield point; c) a decrease in the dependence of the yield point on temperature; d) more even distribution of dislocations and enlargement of subgrains in the tungsten crystals. The strong dependence of yield point, necking down, relative

USSR

KOPETSKIY, CH. V., et al., Moscow, IAN SSSR, Metally, No 2, Mar-Apr 71, pp 124-129

elongation, and nature of rupture of tungsten crystals on the orientation of the extension axis was confirmed.

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CIA-RDP86-00513R002200610017-2" APPROVED FOR RELEASE: 08/09/2001

UDC 669.27.-172

KOPETSKIY, CH. V., ORZHEKHOVSKIY, V. L., PASHKOVSKIY, A. I., and CHUZHKO, R. K., Moscow

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Moscow, IAN SSSR, Metally, No 2, Mar-Apr 71, pp 124-129

Abstract: Although the literature contains a number of works dealing with the investigation of the mechanical properties of tungsten crystals, the influence of carbon on these characteristics has not as yet been studied in detail. This work presents a study of the influence of various quantities of carbon on the structure and mechanical properties of tungsten crystals, with unchanged content of other impurities. The structure and mechanical properties were studied in extension in the 77-473°K temperature interval, using tungsten crystals with orientation of the growth axis < 110 > and < 100 >, containing 0.01 and 0.001 wt. % C. A decrease in the carbon content in tungsten causes: a) an increase in the ductility of the tungsten crystals, particularly at low temperatures; b) a decrease in the yield point; c) a decrease in the dependence of the yield point on temperature; d) more even distribution of dislocations and enlargement of subgrains in the tungsten crystals. The strong dependence of yield point, necking down, relative

KOPETSKIY, CH. V., et al., Moscow, IAN SSSR, Metally, No 2, Mar-Apr 71, pp 124-129

elongation, and nature of rupture of tungsten crystals on the orientation of the extension axis was confirmed.

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Acc. Nr:

Ref. Code: **UR 0239**

PRIMARY SOURCE:

Fiziologicheskiy Zhurnal, 1970, Vol 56,

Nr 1, pp 48-54

INFLUENCE OF HYPOTHALAMIC AREA ON CILIARY BODY SECRETORY ACTIVITY

Bekauri, N. V.; Fadeyeva, O. N.; Chuzhkov, M. I.; Shenger, I. F.

From the I. P. Pavlov Institute of Physiology, USSR Ac. Sci., Leningrad

The effect of electro-stimulation in the hypothalamic area on the secretory activity of the ciliary body has been studied in rabbits and cats. This activity was evaluated by the level of intraocular pressure. Acute experiments in cats have demonstrated that stimulation of various parts of the hypothalamic area (particularly its posterior part) brings about a lowering of intraocular pressure during the 2—3 hrs following stimulation without

a corresponding fall in arterial pressure.

In chronic experiments in rabbit stimulation of the mammillary body in the hypothalamic region by electric current or adrenalin electrophoresis into this area evoked during 3-4 hrs following stimulation a lowering of intra-ocular pressure, preferably on

the stimulated side.

Data obtained point to the participation of the hypothalamic area in regulating the ciliary body activity and to the role of both the neural and hormonal factor therein.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

UDC 577.37

CHUZMADZHEV, YU. A., MULER, A. L., and MARKIN, V. S., Institute of Electrochemistry

"Conformation Model of Excitable Cell Membranes. I. Ionic Permeability"

Moscow, Biofizika, No 6, 1972, pp 1,012-1,016

Abstract: The authors propose a model of a cell membrane consisting of globular lipoproteins forming a dimeric lattice. The model shows the relationship between membrane conductivity and concentration of bivalent ions in an external solution and the membrane potential. This relationship satisfactorily explains the steep increase in sodium conduction from the potential g_{Na} (\mathcal{O}) and the shift of the curve g_{Na} (\mathcal{O}) to the right along the axis of the potentials when the concentration of Ca^{++} in the external solution is increased. The model is in good quantitative agreement with the experimental data.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

UDC 681.335.713

CHVARKOV, V. B., and PENYUGALOV, N. A.

"A Device for Integrating Functions"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 21, Jul 71, Author's Certificate No 308436, Division G, filed 12 Jan 70, published 1 Jul 71, p 186

Translation: This Author's Certificate introduces a device for integrating functions presented in a system of residual classes. The device contains an operational amplifier, with a capacitor in the feedback circuit, and also comparison circuits and relays. As a distinguishing feature of the patent, the functional possibilities of the device are extended by incorporating a second capacitor in the feedback circuit of the amplifier and by including a single-polarity voltage shaper, controlled switch, kipp oscillator, flip-amplifier is connected to one of the adder. The output of the operational amining module to its other input, and through the series circuit comprised of the single-polarity voltage shaper and the controlled switch to the inputs of the comparison circuits. The outputs of the comparison circuits are connected through the kipp oscillator to the flip-flop, and the output

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

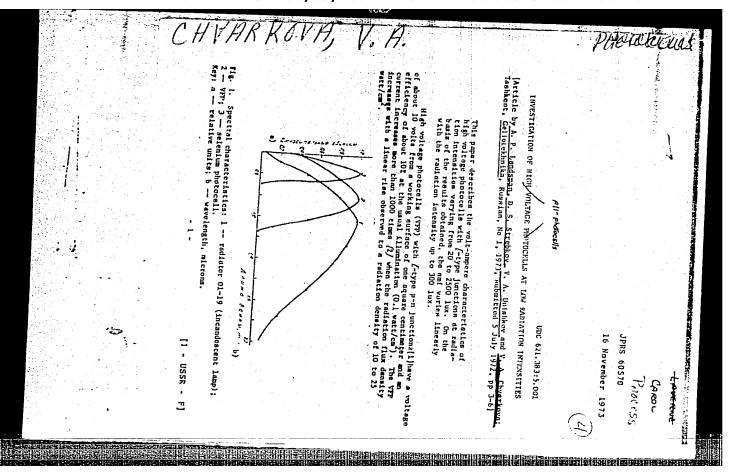
CHYARKOV, V. B., and PENYUCALOV, N. A., Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 21, Jul 71, Author's Certificate No 308436, Division G, filed 12 Jan 70, published 1 Jul 71, p 186

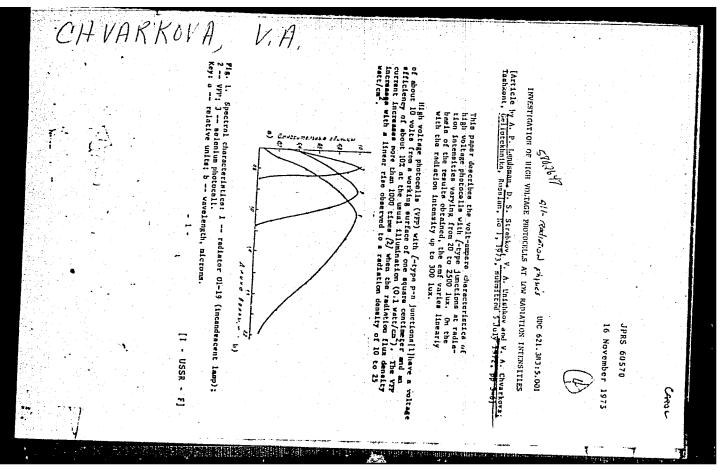
of the flip-flop is connected to a relay winding. The plates of the first capacitor are connected through the normally closed contacts of this relay, and the plates of the second capacitor are connected through its normally open contacts to the input and output of the operational amplifier. The plates of the first capacitor are also connected through normally open contacts, and the plates of the second capacitor are connected through normally closed contacts of the same relay to a ground bus and to the adder output.

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- 51 -

त्तर होता क्षाम स्थापना विवास वि अवस्थान क्षाम स्थापना विवास विवास





UDC: 621.472:621.383

STRETYOV, D. S., UNICHEOV, V. A., and CHVARROVA, V. A.

"Design and Experimental Investigation of High-Voltage n+p-p+

Tashkent, Geliotelphnika, No. 4, 1971, pp 3-8

Abstract: This paper is based on an earlier article (Landsman, A. P. and Stretkov, D. S., Geliotekhnika, 1970, No. 2) in which it was shown that a base contact with a low resistance is a necessary concell with a radiation concentrator. The present paper tinds that the best way of attaining this condition is through an n"-p-p" investigations into this type of photocell. The authors begin the nated parallel to the plane of the p-n junction, in which the base variable concentration of an acceptor impurity whose distribution riers in their movement to the p-n junction. Heasurements made in the experimental part of the article show that in several lots of the specimens tested, the width of the p region varied from

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

STREBKOV, D. S., et al., Geliotekhnika, No 4, 1971, pp 3-8

370 to 150 microns, the width of the n region from 2-4 microns, and the width of the metallic contact layer from 10-20 microns. Curves are given for the volt-appere characteristics of the device for a light flux power of up to 7700 kW/m² in a biparaboloid optical oven consisting of light sources with an arc temperature of up to 5500° C. Spectral characteristics ranging from 400 to 1200 nm are also plotted. The authors are members of the All-Current Sources.

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- 106 -

UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--EXPERIMENTAL ADOPTION OF AN APPARATUS FOR THE CATALYTIC CRACKING OF
A VACUUM DISTILLATE OF TURKMEN PETROLEUMS -UAUTHOR--CHVERTKIN, A.L., TIMERKHANOV, R.V., SEDUNOV, YU.P., SIDORIN, V.P.

COUNTRY OF INFO--USSR

SOURCE--NEFTPERERAB. NEFTEKHIM. (MOSCOW,) 1970, (1) 1-4

DATE PUBLISHED---- 70

SUBJECT AREAS--MATERIALS, EARTH SCIENCES AND OCEANOGRAPHY, PROPULSION AND FUELS
TOPIC TAGS--CATALYTIC CRACKING, PETROLEUM DEPOSIT, FLUIDIZED BED, GASOLINE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/1139

STEP NO--UR/0318/70/000/001/0001/0004

CIRC ACCESSION NO--APO107628

UNCLASSIFIED

ikasin kecamangan pangangan pangan panga

2/2 009 UNCLASSIFIED PROCESSING DATE--11SEP70 CIRC ACCESSION NO--AP0107628 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. OPERATION OF A FLUIDIZED BED CATALYTIC CRACKING INSTALLATION, DIFFERING FROM STD. ONLY IN THE ABSENCE OF A GAS DESULFURIZER, IS DESCRIBED. THE DISTILLATE LEAD, B. 350-500DEGREES. GAVE 0.25PERCENT COKE INSTEAD OF THE 0.1PERCENT DESIGN VALUE. AFTER 2 MONTH'S OPERATION, THE ACTIVITY OF THE CATALYST DECREASED TO 21-22 AND THE GASOLINE YIELD TO 26 WT. PERCENT, THE TEMP. IN THE REACTION ZONE INCREASING TO 485-490DEGREES INSTEAD OF TO 470DEGREES. THE REGENERATION OF THE CATALYST WAS IMPROVED, REDUCING ITS COKE CONTENT TO 0.1-0.2 INSTEAD 0.7-0.9PERCENT. BY IMPROVING THE RECOVERY BOILER, THE TEMP. OF THE CHIMNEY GASES WAS REDUCED FROM 400 TO UNCLASSIFIED

UDC 621.791.75.753

CHVERTKO, A. I., IVANOV, G. P., and PORKHUN, B. V., Electric Welding Institute imeni Ye. O. Paton of the Academy of Sciences

"A New Method of Arc Excitation in Hidden-Arc Welding"

Kiev, Avtomaticheskaya Svarka, No 4 (241), Apr 73, pp 44-45

Abstract: A new method of arc excitation in hidden-arc welding, developed by the Electric Welding Institute imeni Ye. O. Paton, is described. By this method, the end of the electrode is brought into vibration for the excitation time and its supply rate is decreased in comparison with the working rate. The vibration is produced in a direction perpendicular to the electrode axis. In this case, the electrode freely penetrates through the flux layer to the object, the clinker desintegrates, and the intermittent contact of the electrode end with the object contributes to a reliable arc excitation. The effectiveness of the described are excitation is illustrated by an experiment carried out in two variants. Four

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

Welding

USSR

- UDC 621.791.85.037(012)

CHVERTKO, A. I., SVYATSKIY, A. M., and MEKRASOV, A. I., Electric Welding Insti-

"Classification of Equipment for Electron-Beam Welding"

Kiev, Avtomaticheskaya Svarke, No 7, Jul 70, pp 61-66

Abstract: Welding with the use of a beam of accelerated electrons has been gaining increasing acceptance in the industry in recent years. The rapid development of this area of technology is due to a number of features and advantages of the electron beam over other heat sources. Electron beam welding can be used successfully for almost any combination of metals and alloys including refractory and chemically active materials. The variety of equipment for electron beam welding has generated a need to classify the equipment according to the most characteristic features. The system described here classes the equipment into 3 categories according to the extent of protection of the weld metal against atmospheric effects. Each class is divided into groups depending on area of application and dimensions of parts to be welded; groups are divided into subgroups with respect to degree of specialization. Examples of classes, groups, and subgroups are given.

UDC: 662.215.1

ZINCHENKO, A. D., SMIRNOV, V. N., CHVILEVA, A. A., Chelyabinsk

"Measurement of Electrical Conductivity of Explosion Products During Detonation of a Cast Charge of TG 40/60"

Novosibirsk, Fizika Goreniya i Vzryva, No 3, 1971, pp 422-426.

Abstract: The conductivity of a detonation plasma was measured by two methods: MHD and an electric contact method. The former method is used for the first time for the investigation of a dense plasma ($\rho = 2-3g/cm^3$). The results of plasma at 2.4 mm from the origin of the detonation wave was 9.3 mho/cm. The voltampere characteristics produced by the MHD method contain a threshold voltage. The threshold voltage depends linearly on the intensity of the magnetic field mined from the available experimental results. It can only be assumed that the in the presence of the magnetic field.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

素科斯特數學對於使的自己的主義

USSR

UDC 669.721.5:536.422.1

MAKSIMENKO, G. I., LYULICHEV, A. N., CURPRININ, F. I., and KORSUNSKAYA, I. G. Kharkov

"Effect of Surrounding Medium on the Process of Thermal Failure of the Surface of Magnesium Alloys in a Vacuum"

Moscow, Fizika i Khimiya Obrabotki Materialov, No 5, Sep-Oct 72, pp 106-112

Abstract: The purpose of this work was to study the effect of the surrounding medium on the initial stage of sublimation, i.e., on the process of thermal failure of the surface of magnesium alloys in a vacuum. The magnesium alloy tested was MA-2. Specifically investigated were the effects of vacuum depth, temperature of the surfaces and medium surrounding the sample, and composition of residual gases in the vacuum chamber. The better the vacuum the better chance there is to exclude the formation of oxide films on the sample due to diffusion processes. Temperature of the sample and surrounding medium increase the possibility of oxide formation as well as the composition of residual gases. Of the three effects studied, the composition of the residual gases contributes the most toward thermal failure of the alloy's surface. It was noted that the composition of the residual gases between the sample and cryogenic tanks differed substantially from that of the gases on the opposite side of the sample. 5 figures, 4 bibliographic references.

POLAND

SLEDZINSKI, Bohdan, CIESLAKOWA, Ludwika, MALINOWSKI, Romuald; Institute of Organic Industry, Warsaw

"The Synthesis of New N, N, N', N'-Tetraalkyldiamides of 0-1-Chlorophenyl-2-Chlorovinylphosphoric Acids"

Warsaw, Roczniki Chemii, Vol 47, No 3, 1973, pp 637-640

Abstract: In previous papers the authors have described the synthesis of new N, N-dialkylamides of 0-1-chlorophenyl-2,2-dichlorovinylphosphoric acids (1) and N, N-dialkylamides of 0-1-chlorophenoxy-2,2-dichlorovinylphosphoric acids (2). The alkoxy group in compounds 1 and 2 was replaced by an amide group. Positive results were obtained only in the case of the derivatives of compound 1, and 20 N,N,N',N'-tetraalkyldiamides of 0-1-chlorophenyl-2-chlorovinylphosphoric acids were obtained in Perkow's reaction, which have not yet been described in the literature. The raw materials used were N,N,N',N'-tetraalkyl-diamides of 0-alkylphosphorous acids and chlorides of chlorophenacylidenes or chlorophenacylidines. The methods of preparation and the physical characteristics of the obtained compounds are given.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

UDC 548.52

DORFMAN, V. F., PYPKIN, B. N., and COHERETYANSKIY, A. L., Institute of Electonic Control Machines

"Effect of Growth Rate and Crystallization Conditions on Defect Formation in Epitazial GaAs and GaP layers"

Moscow, Kristallografiya, Vol 17, No 6, Nov-Dec 72, pp 1225-1231

Abstract: Previous articles by the authors described the procedure and results of kinetic studies of the epitaxial growth of GaAs and GaP layers in the iodide sandwich process. It was shown that the principal kinetic regularites are exactly alike for GaP and GaAs. The present article attempts to study the effect of growth rate and crystallization conditions on defect formation in epitaxial layers. The main study was devoted to GaAs, but control measurements on GaP specimens obtained under similar conditions permit the conclusions to be applied to GaP, as well. Growth rates are from 10 to 6000 microns/hr, pressure in gas phase from 0.01 to 10 atm (C_1 up to 30 g/ ℓ), substrate temperature from 700 to 1000° C, excess of Ga and As components up to 3 g/ ℓ , process time 30 min., thickness of investigated 1/3

- 22 -

DORFMAN, V. F., et al., Kristallografiya, Vol 17, No 6, Nov-Dec 72, pp 1225-1231

specimens from 100 to 3000 microns. Principal types of defects considered: two-dimensional dislocation network coinciding with the interface, "upright" dislocations intergrowing chiefly from the substrate, wide transition region with increased dislocation density, and polar twins.

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DORFMAN, V. F., et al., Kristallografiya, Vol 17, No 6, Nov-Dec 72, pp 1225-1231

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The authors thank K. M. ROZIN and O. L. KREYNIN for useful discussion.

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- 23 -

CIYMON, A.

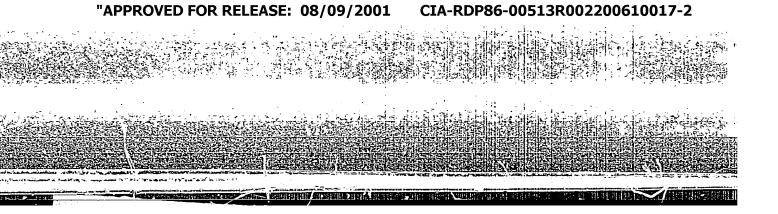
"One Method of Formation of Vector-Time Switching Functions from Micro-

Izv. AN EstSSR. Fiz., Mat. [News of Acad. Sci. Est. SSR, Physics, Mathematics], 1973, Vol 22, No 1, pp 22-30 (Translated from Referative nyy Zhurnal Kibernetika, No 10, 1973, Abstract No 10V595)

Translation: This article, closely related to earlier works by the author on the study of vector-time switching functions (VS-functions), studies one possible algorithmic procedure for production of a VS-function if the system of microprograms of the finite automaton is represented in the form studied in a work of V. M. Glushkov (RZHMat, 1967, Author's view

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"



boxylase (RDC) from Micrococcus Sp. H."

Moscow, Doklady Akaderdi Hauk SSSR, Vol 189, No 4, pp 895-898

Abstract: 4-Imidazolyl-3-aminobutanone-2 was obtained with its derivative produced by amination (NH3). In a closed, dark glass vessel, the crystals of the title compound are preserved indefinitely in a refrigerator. In presence of light and air the ketome undergoes a color change through yellow to dark. As an inhibitor it is specific a minat histidine decarboxylase. It also inhibits lysine decarboxylase by 50%, and aspartate decarboxylase by 40%. It does not react with glutamate decarboxylase wor with tyrosine decarboxylase. The aminated derivative is a weak inhibitor (20%).

The report from the Cardiology Institute of the Academy of Medical Sciences that the title compound and its derivatives, given i. v. to rate, caused a rise in blood pressure from 18-20 mm is of interest.

USSR UDC: 662.215.1

ZINCHENKO, A. D., SMIRNOV, V. N., CHVILEVA, A. A., Chelyabinsk

"Measurement of Electrical Conductivity of Explosion Products During Detonation of a Cast Charge of TG 40/60"

Novosibirsk, Fizika Goreniya i Vzryva, No 3, 1971, pp 422-426.

Abstract: The conductivity of a detonation plasma was measured by two methods: MHD and an electric contact method. The former method is used for the first time for the investigation of a dense plasma (p = 2-3g/cm³). The results of measurement by the two methods agree. The mean specific conductivity of the plasma at 2.4 mm from the origin of the detonation wave was 9.3 mho/cm. The voltampere characteristics produced by the MHD method contain a threshold voltage. The threshold voltage depends linearly on the intensity of the magnetic field applied. The mechanism of development of the threshold voltage cannot be determined from the available experimental results. It can only be assumed that the appearance of this effect results from peculiarities of the near-electrode layers in the presence of the magnetic field.

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UDC 669.721,5:536.422.1

MAKSIMENKO, G. I., LYULICHEV, A. N., CURPRININ, F. I., and KORSUNSKAYA, I. G. "Effect of Surrounding Medium on the Process of Thermal Failure of the Surface Kharkov

of Magnesium Alloys in a Vacuum'

Moscow, Fizika i Khimiya Obrabotki Materialov, No 5, Sep-Oct 72, pp 106-112

Abstract: The purpose of this work was to study the effect of the surrounding medium on the initial stage of sublimation, i.e., on the process of thermal failure of the surface of magnesium alloys in a vacuum. tested Was MA-2. Specifically investigated were the effects of vacuum depth, temperature of the surfaces and medium surrounding the sample, and composition of residual gases in the vacuum chamber. The better the vacuum the better or residual gases in the vacuum chambers of oxide films on the sample due to chance there is to exclude the formation of oxide films on the sample due to diffusion processes. Temperature of the sample and surrounding medium increase the possibility of oxide formation as well as the composition of resicrease the possibility or oxide rormation as well as the composition of the residual dual gases. Of the three effects studied, the composition of the alloy's surface.

gases contributes the most toward thermal failure of the alloy's surface. It was noted that the composition of the residual Bases between the sample was noted that the composition of the restaural gases decimed the gases on the sample. 5 figures, 4 bibliographic references.

of 0-1-chlorophenyl-2-chlorovinylphosphoric acids were obtained in Perkow's reaction, which have not yet been described in the literature. The raw materials used were N,N,N',N'-tetraalkyl-diamides of 0-alkylphosphorous acids and chlorides of chlorophenacylidenes or chlorophenacylidines. The methods of preparation and the physical characteristics of the obtained compounds are given.

POLAND

SLEDZINSKI, Bohdan, CIESLAKOWA, Ludwika, MALINOWSKI, Romuald; Institute of Organic Industry, Warsaw

"The Synthesis of New N,N,N',N'-Tetraalkyldiamides of O-1-Chlorophenyl-2-Chlorovinylphosphoric Acids"

Warsaw, Roczniki Chemii, Vol 47, No 3, 1973, pp 637-640

UDC 548.52

DORFMAN, V. F., PYPKIN, B. N., and <u>COHERETYANSKIY</u>, A. L., Institute of Electonic Control Machines

"Effect of Crowth Rate and Crystallization Conditions on Defect Formation in Epitazial GaAs and GaP layers"

Moscow, Kristallografiya, Vol 17, No 6, Nov-Dec 72, pp 1225-1231

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DORFMAN, V. F., et al., Kristallografiya, Vol 17, No 6, Nov-Dec 72, pp 1225-

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- 23 -

CIYMON, A.

"One Method of Formation of Vector-Time Switching Functions from Microprograms"

Izv. AN EstSSR. Fiz., Mat. [News of Acad. Sci. Est. SSR, Physics, Mathematics], 1973, Vol 22, No 1, pp 22-30 (Translated from Referativnyy Zhurnal Kibernetika, No 10, 1973, Abstract No 10V595)

Translation: This article, closely related to earlier works by the author on the study of vector-time switching functions (VS-functions), studies one possible algorithmic procedure for production of a VS-function if the system of microprograms of the finite automaton is represented in the form studied in a work of V. M. Glushkov (RZHMat, 1967, 11V256). 15 Biblio. Refs.

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UDC 577.150.4

MARDASHEV, S. R., Academician, Academy of Medical Sciences USSR, GONCHAR, N. A., and DABAGOV, N. S. Institute of Biological and Medical Chemistry, Academy of

"4-Imidazoly1-3-aminobutanone-2 -- a New Inhibitor of Bacterial Histidine Decar-Medical Sciences USSR, Moscow boxylase (HDC) from Micrococcus Sp. N."

Moscow, Doklady Akademii Nauk SSSR, Vol 189, No 4, pp 895-898

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The report from the Cardiology Institute of the Academy of Medical Sciences that the title compound and its derivatives, given i. v. to rats, caused a rise in blood pressure from 18-20 mm is of interest.

DABAGYAN, A. V., BORISOV, V. G. and MIKHAYLENKO, N. S.

"The Problem of Prediction of Random Processes"

Upravlyayushchiye Sistemy i Mashiny [Control Systems in Machines], 1973, No 1, pp 42-46 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V204)

Translation: The possibility is studied of predicting a stable random process formed by a discrete sequence of random quantities distributed normally using a linear prediction model. An example is presented of prediction of the quality of manufacture of series produced electric motors.

Author's view

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UDC 519.281

KIREYEV, N. G., DABAGYAN, A. V., LIKHOSHERST, N. V.

"Determination of Dynamic Parameters of Unstable Objects"

Tekhn. Kibernetika (Khar'kov. Otd.). Vyp. 1 [Engineering Cybernetics (Khar'kov Division), No. 1 -- Collection of Works] Kiev, 1970, pp 52-59 (Translated from Referativnyy Zhurnal Kibernetika, No. 4, April, 1971, Abstract No. 4 V205 by V. Noskov).

Translation: A linear unstable system is described by the system of equations

$$\dot{x}_{i} = \sum_{f=1}^{n} a_{if}(f) x_{i}(f) + F_{i}(f) \quad (i = 1, 2, ..., n).$$

It is assumed that

$$a_{ij}(t) = \sum_{k=0}^{m} a_{ij}^{(k)} t^{k}, \ F_{i}(t) = \sum_{k=0}^{m} j_{i}^{(k)} t^{k}.$$

Using the least squares method, estimates are sought for the coefficients $a_i^{(k)}$ and $a_i^{(k)}$ with respect to known $a_i^{(k)}$. The results of a mathematical experiment $a_i^{(k)}$ are studied in detail in cases of various a priori information. In one version of the experiment, normal noise of known intensity is added to the observations $a_i^{(k)}$.

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"APPROVED FOR RELEASE: 08/09/2001

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Ref. Code: UR 0357

PRIMARY SOURCE: Vestnik Oftal'malogii, 1970, Nr /

TWO CASES OF CHOROIDEREMIA

N. P. Dachevskaya, B. Z. Polonskiy

Summary

The world literature sources cited about 40 case-reports of this affection. The aut-

"Determining the Linea of External Loading"	r 'Kinematic' P	roduction Fur	iction Con	sidering the	Effect
Nauch. zap. Tashkent. of the National Econom Sep 72, Abstract No 9V	y), 1971, vyp.	(Scientific 60, pp 49-53	Notes of (from RZh	Tashkent Ins -Kibernetika	titute , No 9,
No abstract					

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UDC 661.63.099.2.095

LINKEVICH, V. A., DADAKHODZHAYEV, A. T., NIYAZOV, M. I., and YEROFEYEVA, O. B., Tashkent Polytechnical Institute

"The Problem of Ammophos Granulation During Its Production by a Combination Process"

Izvestiya VUZ -- Khimiya i Khimicheskaya Tekhnologiya, Vol 14, No 5, 1971, pp 741-743

Abstract: When ammophos is produced by the combination process, the diameter of its granules changes exponentially. A slowed down growth of the granules, as compared to the process of normal distribution, indicates that along with the growth of the granules of the initial load, formation of new granules takes place. This points out a possibility for retreatment of poorly recoverable of nonrecoverable technological process for production of ammophos in a granulator-neutralizer using a pseudoliquefying layer, which however requires maintenance of an optimal technological process regimen coupled with a continuous separation of the finished product.

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earlier paper published in this same journal in the same paper proposes a revision of the earlier experiment which permits having the temperature and concentration gradients in the same region of the semiconductor specimen. A diagram of this revised apparatus is given. A formula for the thermoelectromotive force is theoretically derived on the assumption that the temperature of the carriers is proportional to the unf power incident on the specimen. The curves for this formula and for the experimental data as obtained with the revised 1/2

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UDC: 621.315.592

VEYNGER, A. I., KRAMER, N. I., ABDINOV, A. Sh., and DADAMIRZAYEV, G., A. F. Ioffe Physico-Technical Institute, Leningrad

"Benedix Effect in the High-Frequency Heating of Unbalanced Carriers in Germanium"

Leningrad, Fizika i tekhnika poluprovodnikov, No 7, 1972, pp 1354-1358

Abstract: The authors define the Benedix effect as a thermoelec-

USSR

VEYNGER, A. I., et al, Fizika i tekhnika poluprovodnikov, No 7, 1972, pp 1354-1358

apparatus are plotted on the same axes (the thermoemf as a function of the uhf power) and are seen to have good agreement.

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Luminescence

UDC 661.143(088.8)

USSR

KOKHANOV, B. T., DADAMYAN, Z. M., and DEGTYAREV, A. P.

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"A Contact Suspension"

UDC 519.281

KIREYEV, N. G., DABAGYAN, A. V., LIKHOSHERST, N. V.

"Determination of Dynamic Parameters of Unstable Objects"

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Acc. Nr: APC049054

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PRIMARY SOURCE: Vestnik Oftal malogii, 1970, Nr /

PP 89-90

TWO CASES OF CHOROIDEREMIA

N. P. Dachevskaya, B. Z. Polonskiy

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UDC 51

DADABAYEVA, R. A., IBRAGIMKHODZHAYEV, S., KASYMOV, S.

"Determining the Linear 'Kinematic' Production Function Considering the Effect of External Loading"

Nauch. zap. Tashkent. in-t nar. kh-va (Scientific Notes of Tashkent Institute of the National Economy), 1971, vyp. 60, pp 49-53 (from RZh-Kibernetika, No 9, Sep 72, Abstract No 9V509)

No abstract

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UDC 661.63.099.2.095

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USSR UDC: 621.315.592

VEYNGER, A. I., KRAMER, N. I., ABDINOV, A. Sh., and DADAMIRZAYEV, G., A. F. Ioffe Physico-Technical Institute, Leningrad

"Benedix Effect in the High-Frequency Heating of Unbalanced Carriers in Germanium"

Leningrad, Fizika i tekhnika poluprovodnikov, No 7, 1972, pp 1354-1358

Abstract: The authors define the Benedix effect as a thermoelectromotive force arising in a uniform semiconductor when the carriers are heated by powerful microwave pulses. They performed an experiment involving this effect and reported its results in an earlier paper published in this same journal (A. I. Veynger, et al, FTP, 6, 1972, p 916). The present paper proposes a revision of the earlier experiment which permits having the temperature and concentration gradients in the same region of the semiconductor specimen. A diagram of this revised apparatus is given. A formula for the thermoelectromotive force is theoretically derived on the assumption that the temperature of the carriers is proportional to the uhf power incident on the specimen. The curves for this formula and for the experimental data as obtained with the revised 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

USSR

VEYNGER, A. I., et al, Fizika i tekhnika poluprovodnikov, No 7, 1972, pp 1354-1358

apparatus are plotted on the same axes (the thermoemf as a function of the uhf power) and are seen to have good agreement.

2/2

- 104 -

Luminescence

USSR

UDC 661.143(088.8)

KOKHANOV, B. T., DADAMYAN Z. M., and DEGTYAREV, A. P.

"A Contact Suspension"

USSR Author's Certifictae No 342226, Division H, filed 20 Oct 69, published 13 Jul 72 (from R2h-Khimiya, No 16, 25 Aug 73, Abstract No 16L169 P by N. Sh.)

Translation: The invention relates to the production of electroluminescent capacitors. A contact suspension has been developed which can be used to make reliable contacts on brittle substrates without applying pressure, and at 20°C. The initial components of the suspension are molecular silver, tin abietinate, BF-4, cement and ethyl alcohol. The use of tin abietinate in the suspension combined with the above mentioned components produces electrically conductive junction contacts of aluminum film. The contacts can be made according to the following procedure. The silver for the composition is prepared from silver chloride by zinc reduction in a 20% H₂SO₄ solution (0.3 g of zinc and 5 ml of H₂SO₄ per gram of silver chloride). The zinc is is dissolved with agitation and heating. The resultant molecular silver is washed, dried, and rubbed into a powder. The tin abietinate is prepared by 1/2

KOKHANOV, B. T., et al., USSR Author's Certificate No 342226, Div H, filed 20 Oct 69, published 13 Jul 72

zelting stannic oxide with rosin powder in a 2:1 ratio, rubbing the residue into a powder and dissolving it in alcohol. The makeup of the suspension is: molecular silver (4 wt.%), wthyl alcohol (the quantity depends on the required viscosity of the suspension), BF-4 cement (1 wt.%), and tin abietinate (1 wt.%). The components of the suspension are mixed in a hermetically sealed vessel and applied to a thin film of aluminum. After holding at 20°C for 2 hours, leads can be applied to a contact of the suspension by low-temperature soldering.

2/2

- 5 -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

1/2 022

UNCLASSIFIED

PROCESSING DATE--20NOV70

TITLE--STATE OF THE AXIAL CYLINDERS AND CHALINESTERASE ACTIVITY IN A MINCEU MUSCLE AUTOTRANSPLANT DURING REGENERATION -U-AUTHOR-(03)-ZHGENTI, V.K., DALAKISHVILI, M.L., KUTUBIDZE, R.A.

CCUNTRY OF INFO--USSR

SCURCE-SCUBSHCH. AKAD. NAUK GRUZ. SSR 1970, 57(1), 229-32

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--AUTOTRANSPLANTATION, CHOLINESTERASE, MUSCLE PHYSIOLOGY, TISSUE REGENERATION

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—-3003/1043

STEP NO--UR/0251/70/057/001/0229/0232

CIRC ACCESSION NO--APOI3CC78

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2/2 022	UNCLASSIFIED	PROCESSING DATE20NOV70
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1/2 026 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--ELECTRIC MODELS FOR STUDYING THE INFLUENCE OF HEAT REMOVAL ON THE DYNAMIC ERRORS OF TEMPERATURE SENSORS OF FINITE DIMENSIONS -U-AUTHOR-(02)-DALAKISHVILI, O.N., GOGOLADZE, Z.Z.

COUNTRY OF INFO--USSR

SOURCE--AKADEMIIA NAUK GRUZINSKOI SSR, SOOBSHCHENIIA, VOL. 57, JAN. 1970, P. 153-156 DATE PUBLISHED---- 70

SUBJECT AREAS -- METHODS AND EQUIPMENT, PHYSICS

TOPIC TAGS--ELECTRIC ANALOG, ERROR ANALYSIS, TEMPERATURE MEASURING INSTRUMENT, HEAT LOSS, FREQUENCY CHARACTERISTIC, MODEL

CONTROL MARKING--NO KESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1452

STEP NO--UR/0251/70/057/000/0153/0156

CIRC ACCESSION NO--APOII8441

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

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SOKOLENKO, V. A., DADALI, V. A., LITVINENKO, L. M., Academician of the Ukrainian SSR Academy of Sciences, SEMENOV, V. L.

"Effect of Ultraviolet Radiation on the Reaction Rate of the Hydrolysis of Tetraethyl Pyrophosphate Catalyzed by Benzimidazole"

Moscow, Doklady Akademii nauk SSSR, Vol 208, No 6, 1973, pp 1398-1400

Abstract: A significant increase (by 15 orders) in the basicity of benzimidazole in the case of electron excitation and a noticeable increase in the model reaction rate of the hydrolysis of tetraethyl pyrophosphate catalyzed by benzimidazole during ultraviolet radiation were discovered previously L. M. Litvinenko, et al., DAN, Vol 204, No 5, 1972. A further study has now been made of the effect of the electron excitation of benzimidazole molecules on the rate of the tetraethyl pyrophosphate hydrolysis reaction. The proportion of excited molecules participating in the catalysis was determined, and the dependence of the reaction rate on their concentration was investigated.

The significant increase in catalytic activity of the benzimidazole molecules on excitation of them and also the significant changes in the acid-base properties of the excited molecules of a number of compounds entering into the composition of proteins \(\subseteq B. \) V. Donckt, Progr. Reakt. 1/2

SOKOLENKO, V. A., et al., Doklady Akademii nauk SSSR, Vol 208, No 6, 1973, pp 1398-1400

Kinet, No 5, 273, 1970 lead to the assumption that analogous processes can have a defined effect also in encymatic catalysis. It is possible that the catalytic activity of enzymes can in a number of cases arise from the functional protein groups excited during the enzyme-substrate interactions. The possible nucleophilic mechanism of catalysis of the excited molecule by the catalyst is proposed as was used previously /F. Gramer, et al., Ber., No 94, 1634, 1961 to explain the catalytic effect of imidazol in the base state.

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USSR

UDC 51:155.001.57:681.3.06

DADAMYAN, G. G., DOMNIN, B. A., SEMENOV, A. I., TUPISYN, V. G.

"Some Approaches to Formalization of Decision Making Processes in Organizational Structures"

Modelir. Sots. Protsessov [Modeling of Social Processes -- Collection of Works], Moscow, Nauka Press, 1970, pp 119-138 (Translated from Referativnyy Zhurnal Kibernetika, No 3, 1971, Abstract No 3 V569 by M. Chelyshev).

Translation: The problem of decision making in organizations of various degrees of complexity is studied. Any organization consists of a system with definite, regular structural relationships between hierarchical levels of the administration and functional links of the organization. The concept of the expert as a person or group of persons responsible for decision making at a certain level of the hierarchy in the organization is introduced. Given the levels of the hierarchy of the organization at which decisions are made and the number of alternatives presented to the expert at each level, it becomes possible in principle to construct decision networks modeling the process of decision making in the organization. The purpose of the decision networks is to reflect the entire set of decisions or all possible flows of decisions leading to an unambiguous answer to the question included in a problem. As the process of decision making

- 33 -

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UDC 51:155.001.57:681.3.06

DADAMYAN, G. G., DOMNIN, B. A., SEMENOV, A. I., TUPISYN, V. G., Modelir. Sots. Protsessov, Moscow, Nauka Press, 1970, pp 119-138.

is formalized, it is assumed that the selection of alternatives by an expert is determined by the preceding trajectory of a document and the induced hypothesis concerning the further path of documents in the organization. The structure of a graph illustrating the decision network is analyzed. The graph of the decision network is characterized by the following conditions: 1) each point connects to at least two lines (except for the root); 2) the "tree" should have no closed loops. This method of modeling of decision making processes is understandable and convenient. It must be noted that the use of decision networks produces only an indirect economic effect, in that it may lead to efficient arrangement and control of the organization being studied.

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UDC 621.3.049.774.002.5

DADAMYAN, Z. M., DEGTYAREV, A. P., KOKHANOV, B. T., MAKAROV, Yu. Ye.

"A Method of Making Printed Circuits"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 2, Jan 71, Author's Certificate No 290494, division H, filed 13 Sep 68, published 22 Dec 70, p 170

Translation: This Author's Certificate introduces a method of making printed circuits based on making an electrostatic image of the printed circuit on a foil-coated dielectric board, and etching the blank sections. As a distinguishing feature of the patent, the method is simplified by covering the foil-coated board with a dielectric layer such as lacquer with a polyvinyl alcohol base before applying the electrostatic image of the circuit.

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1/2 011 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--EFFECT OF THE NATURE OF THE PROMOTER ON THE CATALYTIC ACTIVITY OF
AUUMINOCHROMIUM CATALYSIS IN ISOPENTANE DEMYDROGENATION -UAUTHOR-(03)-DADASHEV, B.A., SARYDZHANDV, A.A., GADZHIKASUMOV, V.S.

COUNTRY OF INFO--USSR

D

SOURCE--AZERB. NEFT. KHOZ. 1970, (1), 36-7 (RUSS)

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--CATALYST ACTIVITY, METAL DXIDE, DEHYDROGENATION, ISOPENTANE, POTASSIUM DXIDE, CESIUM COMPOUND, KUBIDIUM COMPOUND/(U)K5 CATALYST, (U)A19 CATALYST

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1123

STEP NO--UR/0487/70/000/001/0036/0037

CIRC ACCESSION NO--APO123550

生物(應收納)清偿請除。[beth] [PROCESSING DATE--13NOV70 UNCLASSIFIED CIRC ACCESSION NO--AP0128550 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. OXIDE PROMOTERS WERE TESTED AT ZESPERCENT CONCUS. (NH SUBZ @ SUB3 AND CS SUBZ @ FOR INDUSTRIAL CATALYST K,5 AND CS SUB2 O, K SUB2 D, RB SUB2 O, CEO SUB2, AND YB SUB2 O SUB3 FOR AL, CR CATALYST A, 19). THE ALKALI METALS WERE THE ONLY ONES AFFECTING YIELDS AND SELECTIVITY IN THE DEHYDROGENATION OF ISOPENTANE (I) TO ISDAMYLENES. PROMOTION OF A.19 CATALYSTS BY K SUB2 O RAISED YIELDS FROM 20-18 AND 32-4 TO 37-3 AND 40-3 PERCENT AND SELECTIVITY FROM 54-9 AND 60-5 AND 68-70PERCENT, RESP., RELATIVE TO UNPROMOTED K,5 CATALYST, WHENDEHYDROGENATION OF I WAS CARRIED OUT IN STATIONARY AND FLUIDIZED BEDS AT 530 AND 350-75DEGREES AND VOL. INPUT RATES OF 0.5-2.0 AND 1-2.65 HR PRIME NEGATIVEL, RESP. YIELDS AND SELECTIVITY UNDER STATIONARY CATALYST CONDITIONS WERE 26-3 AND 43-55PERCENT WHEN UNPROMOTED A, 19 CATALYST WAS USED. RB SUB2 O AND CS SUB2 O WERE SLIGHTLY LESS EFFECTIVE THAN K SUBZ O. FOR STATIONARY CATALYST CUMDITIONS, PROMOTION OF K,5 CATALYST BY CS SUB2 O RAISED YEILDS AND SELECTIVITY TO 23-20 AND 3.5-65PERCENT, RESP.

UNCLASSIFIED

1/2 010 UNCLASSIFIED PROCESSING DATE—300CT70
TITLE—MINERALIZATIONS AND SALT ION COMPOSITIONS OF STRATAL WATERS OF THE

AUTHOR-(04)-MAMEDOV, N.I., ALIKHANOV, G.G., DADASHEV, M.N., KASUMOV, K.A.

CCUNTRY OF INFO--USSR

SCURCE--AZERB. NEF. KHUZ. 1970, (2), 10-12

DATE PUBLISHED---70

SUBJECT AREAS—EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS-GEOCHEMISTRY, GROUND WATER, GEOGRAPHIC LOCATION

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME--3003/0141

STEP NO--UR/0487/70/000/002/0010/0012

CIRC ACCESSION NU--AP0129397

-----UNCLASSIFIED-

CIRC ACCESSION NO-APO129397 ABSTRACT/EXTRACT(U) GP-O- ABSTRACT. SOME 38 CHEM. ANALYSES OF STRATAL WATERS FROM THE TITLE SERIES IN THE CASPIAN SEA AREA ARE PRESENTED, AND THE GEOCHEMISTRY OF THESE WATERS IS DISCUSSED. UNCLASSIFIED	2/2 010 _	UNCLASSIFIED	PROCESSING DATE300CT70
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

DADASHEV, T. M.

"Recognition Algorithms Which are Extreme as to Acuity Threshold"

Zh. Vychisl. Mat. i Mat. Fiz. [Journal of Computer Mathematics and Mathematical Physics], 1973, Vol 13, No 3, pp 737-749 (Translated from Referativnyy Zhurnal Kibernetika, No 10, 1973, Abstract No 10V368)

Translation: This work studies the problem of optimal selection of a recognition algorithm dependent on a certain number of parameters and based on calculation of estimates. The algorithm is evaluated by the generalized error functional

$$\varphi(A) = \frac{1}{m} \sum_{l=1}^{m} (e_{l}\alpha_{l} + \omega_{l}\beta_{l}).$$

Here m is the number of objects in the test table, ϵ_i is the cost of an error in classification of the ith object of the test table, ω_i is the cost of refusal to classify the ith object, α_i is the characteristic function of the set of objects improperly classified by algorithm A, β_i is the characteristics function of the set of objects for which algorithm 1/2

DADASHEV, T. M., Zh. Vychisl. Mat. i Mat. Fiz., 1973, Vol 13, No 3, pp 737-749

A refused to vote. The estimates themselves are assumed independent of the parameters. In the case when $\varepsilon_i = \varepsilon_0 > 0$, $\omega_i = \varepsilon_0/2$, $(i = \overline{1, m})$, necessary and sufficient conditions are given for optimality of the recognition algorithm, a procedure is described for determination of the set of parameters optimizing the recognition algorithm.

In the general case, when not all ϵ_i or ω_i are identical, a procedure is constructed for determination of values of the parameters optimizing the recognition algorithm.

In conclusion, possible generalizations of the optimization procedure for the case when the estimates depend on the parameters are discussed. The work is supplied with a large number of examples illustrating the basic results of the author.

B. Kuznetsov

2/2

UDC: 51:330.115

USSR

DADAYAN, V. S., CHEREMNYKH, Yu. N. (editors)

"Modeling of Economic Processes. Collection of Articles"

Modelirovaniye ekonomicheskikh protsessov. Sb. statey. Mosk. un-t. Ekon. fak. Otd. ekon. kibernet. i planir. (cf. English above. Moscow University. Economics Faculty. Division of Economic Cybernetics and Planning), 1971, 533 pp. ill. 60 k. (from RZh-Kibernetika, No 11, Nov 71, Abstract No 11v657 K)

Translation: The book will be abstracted by articles.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"



UDC 591.1 + 612.84

DANELIA, D. S., Institute of Clinical and Experimental Neurology

"Appearance of the Augmenting Response During Prolonged Adequate Stimulation of Receptors"

Tbilisi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, Vol 57, No 1, 1970, pp 177-180

Abstract: Experiments were carried out on non-anesthetized cats immobilized by intravenous injection of d-tuberocurarine. It was determined that prolonged low frequency stimulation by means of light or sound stimuli resulted in appearance of high voltage, dual phase, positive-negative waves in the corresponding projection area of the cortex. These potentials are similar to the augmenting response elicited by low-frequency electrical stimulation of specific thalamic nuclei. The similarity in the response to low frequency prolonged peripheral and central stimuli is also proven by their identical reaction to reticular activation.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

USSR UDC: 681.3.05:51

DANELYAN, T. Ya.

"A Possible Method of Defining a Programming Language in Terms of etrized Scheme"

V sb. Teoriya i praktika mashin. obrab. ekon. inform. (Theory and Practice in Computer Processing of Economic Data--collection of works), Moscow, 1971, pp 184-192 (from RZh-Kibernetika, No 11, Nov 71, Abstract No 11V810)

Translation: A method is proposed for describing programming language structures in terms of a system of parameters. A programming language (L-language) in a set of F-allowable parameters is defined as an ordered set of four elements or a quadruplex $FL \rightarrow F(l_1, l_1, l_2, l_3)$, where l_1 is a universal set of abstract objects defined on the object region (numbers, symbols of lines, symbols of operations and functions, special symbols); l_2 is the fundamental set of relations given on l_1 ; l_3 is the form of the base structure of the L-language; l_4 is the aggregate of rules of the method of representation of forms of the L-language which indicates the correspondence between forms of the base structure and the specific form of the relation which is perceived by the receiver. Within this approach to language definition the author l/2

DANELYAN, T. Ya., Teoriya i praktika mashin. obrab. ekon. inform., Moscow, 1971, pp 184-192

discusses two problems: 1) whether such parametrization is unique, i. e. whether a quadruplex $FL(l_1, l_2, l_3, l_4)$ can give a unique schematic representation of any programming language; 2) whether the parametric system FL is independent or generating, i. e. whether it can generate programming languages each of which differs from the given language by exactly one parameter. V. Mikheyev.

2/2

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· USSR

UDC:



SHEKHTER, Z. Kh., OOKOLOV, G. S., PETROV, B. I., LERNER, B. L., DADERKO, Yu. R., BARYSHNIKOV, G. P., Special Design Office of Seismic Instrument Building

"A Device for Registration of Seismic Information in Digital Form"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 23, Aug 72, Author's Certificate No 346694, Division G, filed 20 Aug 71, published 28 Jul 72, p 188

Translation: This Author's Certificate introduces a device for registration of seismic information in digital form. The device contains amplifiers in accordance with the number of channels, a multiplexer, an analog code converter, a single-channel digital plotter, and a single-channel playback circuit. As a distinguishing feature of the patent, in order to simplify computer input of recorded seismic information, and to visualize recorded data by means of a single-channel playback device through sequential path-by-path representation of multichannel seismic data in serial digital code on a single track of the magnetic tape, a code converter and an intermediate memory module are added. The code converter

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

USSR

SHEXHTER, Z. Kh. et al., USSR Author's Certificate No 346694

has a single input connected to the output of the analog code converter, and several outputs of demultiplexed signals in serial code to equal the number of seismic channels. In the registration mode, each of the converter outputs is connected through a commutator to its own section of the intermediate memory. In the mode of path-by-path transcription of signals from the intermediate memory to a single track of the magnetic tape and to the visible information medium, the sections of the intermediate memory which each have their own corresponding seismic recording path are connected to the main head of the digital plotter and to the input of the single-channel playback circuit through the same commutator used for sequential switching of these signal sections.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2 ecessoristic control conformation and material control of the cont

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UNCLASSIFIED PROCESSING DATE--20NOV70

TITLE-TECHNICO ECONOMICAL CONSIDERATIONS IN SLECTING LIGHT SOURCES AND CEVICES FOR LIGHTING CENSTRUCTION AND BUILDING SITES -U-AUTHOR--DAGICHCV, M.S.

CCUNTRY OF INFG--USSR

SOURCE-SVETUTEKHNIKA (USSR), NO. 1, P. 10-12 (JAN. 1970)

DATE PUBLISHED --- JANTO

SUBJECT AREAS -- PHYSICS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TACS-VISIBLE LIGHT, LIGHT REFLECTION, CONSTRUCTION ENGINEERING, CONSTRUCTION INDUSTRY

CENTROL MARKING-NO RESTRICTIONS

DECUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0127

STEP NG--UR/0311/70/000/001/0010/0012

CIRC ACCESSION NO--APC130889

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

CIRC ACCESSION NO--APOL30889

ABSTRACT/EXTRACT--(U) CP-O- ABSTRACT. DISCUSSES THE CHOICE OF REFLECTORS FOR FILAMENT, FILAMENT IODINE CYCLE AND XENCN LAMPS FOR ILLUMINATION OF LARGE WORKING SITES AND ECONOMICAL EVALUATION OF LIGHTING OF OPEN SURFACES. TO TO 400 METRES LONG BY A VARIETY OF LAMPS PROVIDING A MINIMUM ILLUMINATION OF 3 LUX. THE RESULTS OF CALCULATION SHOW THE CAPITAL AND MAINTENANCE COST AGAINST THE SITE LENGTH OF LIGHTING THE UNIT SURFACE AREA USING A LARGE VARIETY OF LAMPS AND DEPENDENCE OF VARIATION OF THE SPECIFIC LAMP RATING ON THE SIZE OF THE SITE. THE GRAPHS ARE ANALYZED AND CONCLUDED BY RECOMMENDATIONS.

1/2 022 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--SIMULTANEOUS EXISTENCE OF SEVERAL MYCOSES IN PATIENTS WITH ITSENKO KUSHING'S SYNOROME -U-

AUTHOR-(03)-SHEKLAKOV, N.D., LESHCHENKO, V.M., DADIOMOVA, V.G.

COUNTRY OF INFO--USSR

SOURCE-VESTNIK DERMATOLOGII I VENEROLOGII, 1970, NR 6, PP 41-45

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--SKIN DISEASE, FUNGUS, DISEASE, CHEMOTHERAPY, ADRENAL GLAND, PITULTARY GLAND

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/1379

STEP NO--UR/0206/70/000/006/0041/0045

CIRC ACCESSION NO--APO133331

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

CIRC ACCESSION NOAPO133 ABSTRACT/EXTRACT(U) GP- AUTHORS! OWN OBSERVATION WITH ITSENKO KISHING'S GENERALIZED AFFECTION OF TRICHOPHYTON VIOLACEUM CANDIDA ALBICANS, AND OF SIMILAR PRECESS WAS CAURUBRUM. THE SUCCESS ANTIMYCOTIC DRUGS WITH	-O- ABSTRACT. REPORTS ONS OF 2 PATIENTS WITH SYNDROME ARE PRESENTED OF THE SKIN AND THE SC. OF DEEP LAYERS OF THE OF NAILS, BUT TRICHOPHY USED BY TRICHOPHYTON V IN THERAPY WAS ACHIEVED TREATMENT OF DYSFUCTION ITY: TSENTRALINYY NAUG	ALP WAS CAUSED BY E DERMA (ABSECCES), BY YTON KUBRUM. IN THE OTHER A IOLACEUM AND TRICHOPHYTON D BY COMBINATION OF ON OF THE PITUITARY ADRENAL
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1/2 023 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--LIQUID SCINTILLATORS FOR LARGE SCINTILLATION COUNTERS -U-

AUTHOR-(03)-VOYEVODSKIY, A.V., DADYKIN, V.L., RYAZHSKAYA, O.G.

COUNTRY OF INFO--USSR

SOURCE-PRIB. TEKH. EKSP. 1970, 1, 85-7

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY, PHYSICS, MATERIALS

TOPIC TAGS--SCINTILLATOR, POLYSTYRENE RESIN, TOLUENE, ORGANIC AZOLE COMPOUND, KEROCENE, GREASE, PETROLEUM PRODUCT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1376

STEP NO--UR/0120/70/001/000/0085/0087

CIRC ACCESSION NO--APO128776

UNCLASSIFIED

2/2 023 PROCESSING DATE--13NOV70 UNCLASSIFIED CIRC ACCESSION NO--AP0128776 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. PROPERTIES OF NEW. LIZ. SCINTILLATORS PREPD. FROM CHEAP PETROLEUM PRODUCTS ARE LISTED IN COMPARISON WITH A POLYSTYRENE BASED PLASTIC SCINTILLATOR AND A PHME BASED LIQ. SCINTILLATOR. THE NEW LIQS. INCLUDE WHITE SPIRIT WITH 1G-L. OF 2,5,01PHENYL OXAZOLE PLUS 0.03 G-L. OF 1,4,BIS, (5, PHENYL, 2.0XAZOLYL) BENZENE, TS KEROSINE, T KEROSINE, NAPHTHYL, VASELINE GREASE AND MOTOR ALKYLATE CALL WITH THE SAME SCINTILLATING ADMIXT.). THE DESCRIBED LIQ. SCINTILLATORS HAVE A HIGH TRANSPARENCY AND A LIGHT YIELD COMPARABLE TO THAT OF THE STD. PLASTIC SCINTILLATORS. FACILITY: FIZ. INST., MOSCOW, USSR.

PROCESSING DATE--230CT70 1/2 UNCLASSIFIED TITLE--GRAPHICAL METHOD FOR SOLVING THE THO BODY PROBLEM -U-

AUTHOR-(02)-DAGAYEV, M.M., RADIZIEVSKIY, V.V.

COUNTRY OF INFO--USSR

SOURCE--ASTRONOMICHESKII VESTNIK, VOL. 4, JAN.-MAR. 1970, P. 70-77

DATE PUBLISHED----70

SUBJECT AREAS--ASTRONOMY, ASTROPHYSICS

TOPIC TAGS--NOMOGRAPH, CELESTIAL BODY MOTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/1458 STEP NU--UR/0454/70/004/000/0070/0017

CIRC ACCESSION NO--AP0106214

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

PROCESSING DATE--230CT70 UNCLASSIFIED 2/2 008 CIRC ACCESSION NO--APO106214 ABSTRACT. DESCRIPTION OF A PRINCIPLE OF ABSTRACT/EXTRACT--(U) GP-0-CONSTRUCTION NOMOGRANS FOR A GRAPHICAL SOLUTION OF THE TWO BODY PROBLEM. ON THE BASIS OF RADIUS VECTOR MAGNITUDES AND COMPONENTS OF THE BODY VELOCITY, GIVEN FOR THE INITIAL MOMENT, A QUICK DETERMINATION MAY BE MADE OF THE MAJOR SEMIAXIS, ORBITAL ECCENTRICITY, PERIOD OF REVOLUTION, MOMENT OF PASSAGE THROUGH THE PERICENTER, AS WELL AS POSITION AND VELOCITY OF THE BODY AT ANY MOMENT OF TIME. NOMOGRAMS CONSTURCTED FOR MOSKOVSKII BODIES OF THE SOLAR SYSTEM ARE PRESENTED. FACILITY: PEDAGOGICHESKII INSTITUT, MOSCOW, USSR. UNCLASSIFIED

1/2 023

UNCLASSIFIED

PROCESSING DATE--160CT70

TITLE--AMINO ACID TRANSPORT IN THE MYOCARDIUM OF RABBITS WITH ALLOXAN

DIABETES -U-

AUTHOR--DAGAYEVA, L.N.

COUNTRY OF INFO--USSR

SOURCE--PROBL. ENDOKRINOL. 1970, 16(2), 99-103

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--UREA DERIVATIVE, DIABETES MELLITUS, MEDICAL EXPERIMENT, MYOCARDIUM, AMINO ACID, INSULIN, SULFUR ISOTOPE, CARBON ISOTOPE, CHEMICAL LABELLING

CONTROL MARKING--NO RESTRICTIONS:

PROXY REEL/FRAME--1996/0602

STEP NO--UR/0502/70/016/002/0099/0103

CIRC ACCESSION NO--APO117830

UNCLASSIFIED

UNCLASSIFIED

PROCESSING DATE--160CT70

CIRC ACCESSION NO--APO117830

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IN RABBITS WITH ALLOXAN DIABETES,
TRANSPORT OF AMIND ACIDS IN THE MYDICARDIUM WAS INHIBITED. INSULIN
PROMOTED A RISE OF METHIONINE PRIME35 S TRANSPORT IN VIVO. IN VITKO,
INSULIN AND GLUCOSE PRUMUTED THE TRANSPORT OF GLYCINE PRIME14 C.
FACILITY: LAB. PATHOFIZIOL., INST. EKSP. ENDOKRINOL. KHIM. GORMON.,
MOSCOW, USSR.

UNCLASSIFIED

1/2 022 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--ADENOSINE TRIPHOSPHATASE ACTIVITY OF MYOCARDIAL EXTRACTS OF RABBITS
WITH ALLOXAN DIABETES -U-

AUTHOR--DAGAYEVA, L.N.

COUNTRY OF INFO--USSR

SOURCE-BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 4, PP 62-63

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ADENOSINE TRIPHOSPHATE, MYOCARDIUM, RABBIT, DIABETES MELLITUS, INSULIN

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1988/1584.

STER NO--UR/0219/70/009/004/0052/0063

CIRG ACCESSION NO--APO106330

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200610017-2"

2/2 022	UNCLASSIFIED	PROCESSING DATE020CT	70
THE ACTIVITY OF ADENOS	P-O- ABSTRACT. IN RABI	BITS WITH ALLOXAN DIABETES VITY IN THE MYOCARDIUM	
DECREASES. THE INTROU	DUCTION OF INSULIN IS COPHATASE ACTIVITY IN THE	INDUCIVE TO A RESTORATION)F
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UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--OXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA FROM THE CARDIAC MUSCLE
OF RABBITS WITH ALLOXAN DIBBETES _U-

AUTHOR--DAGAYEVA. L.N.

COUNTRY OF INFO--USSR

SOURCE--BYULLETIN' EKSPERIMENTAL'NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 3, PP 55-58

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--PHOSPHORYLATION, MITOCHONDRION, HEART MUSCLE, RABBIT, DIABETES MELLITUS, INSULIN, ENZYME ACTIVITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1982/0866

STEP ND--UR/0219/70/069/003/0055/0058

CIRC ACCESSION NO--APO052300

UNCLASSIFIED

Chair Charles and the historic of a management brackers of a

2/2 026 UNCLASSIFIED PROCESSING DATE--115E970 CIRC ACCESSION NO--APO052300 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. UNDER STUDY WAS THE LEVEL OF DXIDATIVE PHOSPHORYLATION IN MITOCHONDRIA FROM THE CARDIAC MUSCLE OF RABBITS WITH ALLOXAN DIABETES AND IN CONDITIONS OF INSULIN THERAPY. DURING THE DETERMINATION OF PHOSPHORYLATION BY THE INCREASE OF CREATING PHOSPHATE THERE WAS NOTED A SHARP REDUCTION OF OXIDATIVE PHOSPHORYLATION (DISSOCIATION). THE HEXOKINASE ACTIVITY IN EXTRACTS FROM THE CARDIAC MUSCLE OF RABBITS WITH ALLOXAN DIABETES WAS REDUCED MORE THAN TWO FOLD. ADMINISTRATION OF INSULIN TO RABBITS WITH DIABETES RESTORED THE HEXOKINASE ACTIVITY IN EXTRACTS FROM THE CARDIAC MUSCLE AND THE LEVEL OF OXIDATIVE PHOSPHORYLATION IN THE MITOCHONDRIA. UPON THE ADDITION OF AN EXCESS OF HEXOKINASE TO A MITOCHONDRIAL SUSPENSION FROM THE CARDIAC MUSCLE OF RABBITS WITH ALLOXAN DIABETES DISSOCIATION OF PHOSPHORYLATION AND RESPIRATION WAS NOT OBSERVED. REDUCTION OF DXIDATIVE PHOSPHORYLATION IN MITROCHONDRIA FROM THE CARDIAC MUSCLE OF RABBITS WITH ALLOXAN DIABETES IS SECONDARY AND IS CAUSED BY A DEFICIENCY OF SYSTEMS ACCEPTING PHOSPHATE.

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